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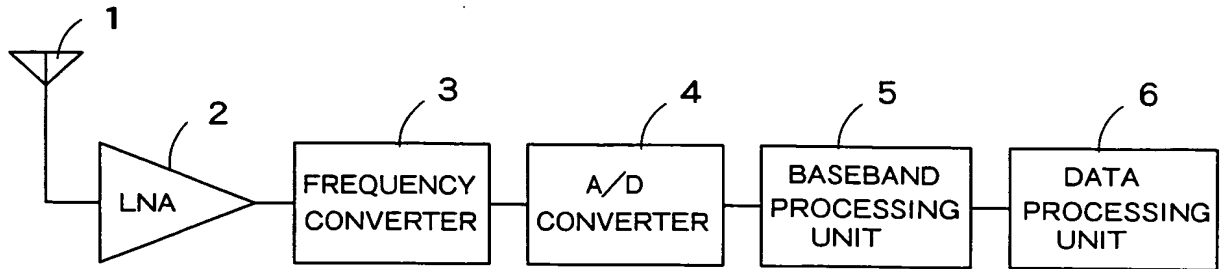


FIG.1

EVEN SYMBOL PHASE SHIFT	digit pattern(d0,d1)	ODD SYMBOL PHASE SHIFT
0	00	π
$\pi/2$	01	$3\pi/2$
π	11	0
$3\pi/2$	10	$\pi/2$

FIG.2

digit pattern(di,d(i+1))	PHASE OF ϕ_i
00	0
01	$\pi/2$
10	π
11	$3\pi/2$

FIG.3

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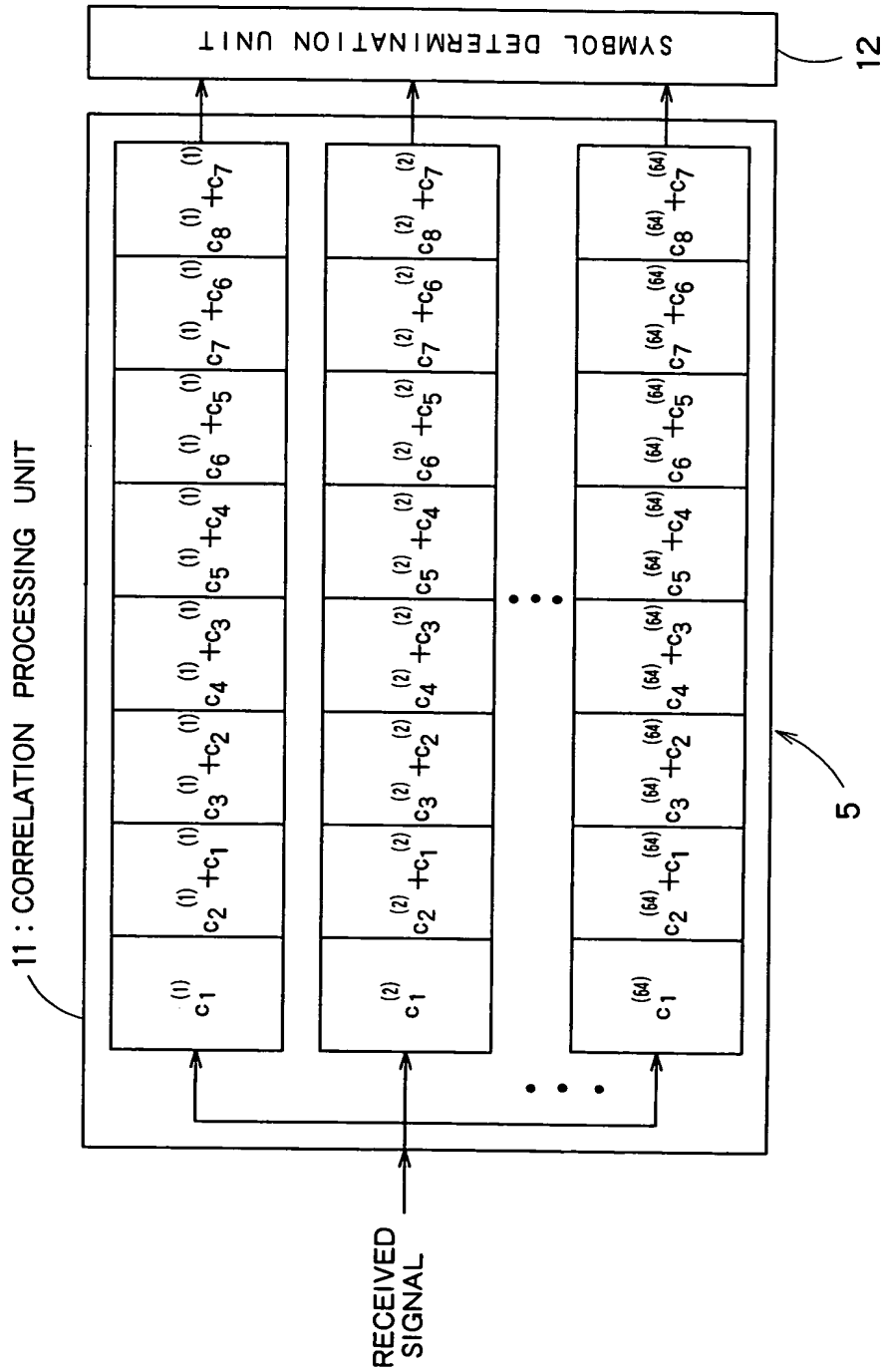
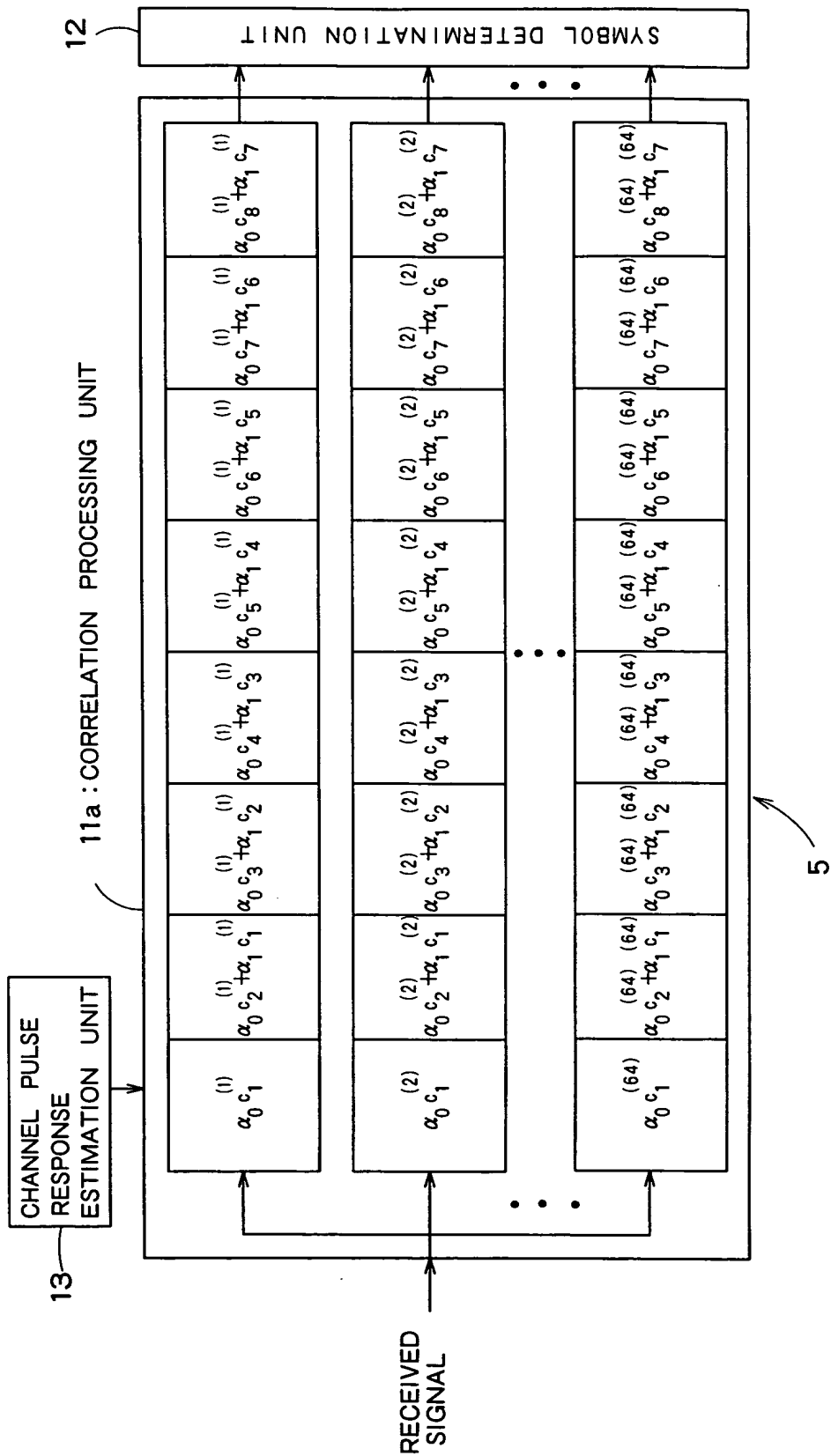
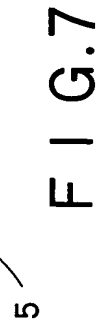


FIG.4

$c_1^{(1)}$	$c_2^{(1)}$	$c_3^{(1)}$...	$c_7^{(1)}$	$c_8^{(1)}$
$w1$					
$c_1^{(1)}$		$c_2^{(1)}$...	$c_6^{(1)}$	$c_7^{(1)}$
$w2$					
	$c_1^{(1)}$				$c_8^{(1)}$
$w3$					
$c_1^{(1)}$	$c_2^{(1)} + c_1^{(1)}$	$c_3^{(1)} + c_2^{(1)}$...	$c_7^{(1)} + c_6^{(1)}$	$c_8^{(1)} + c_7^{(1)}$
					$c_8^{(1)}$

FIG.5





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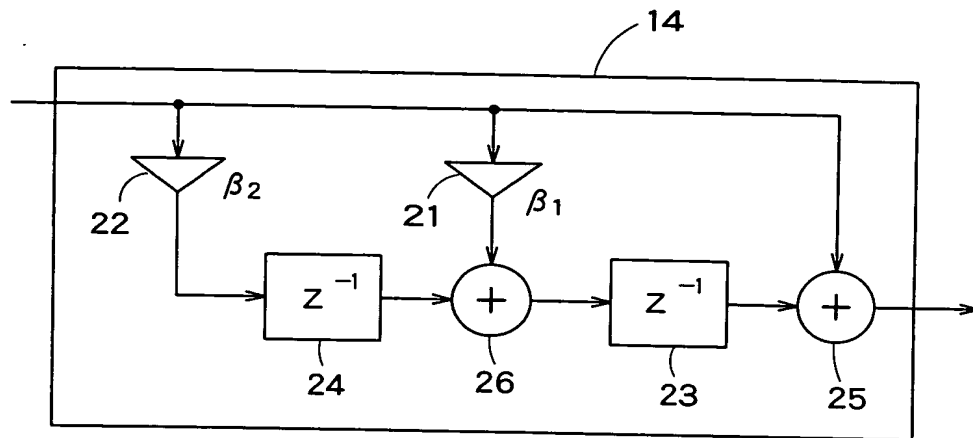


FIG. 8

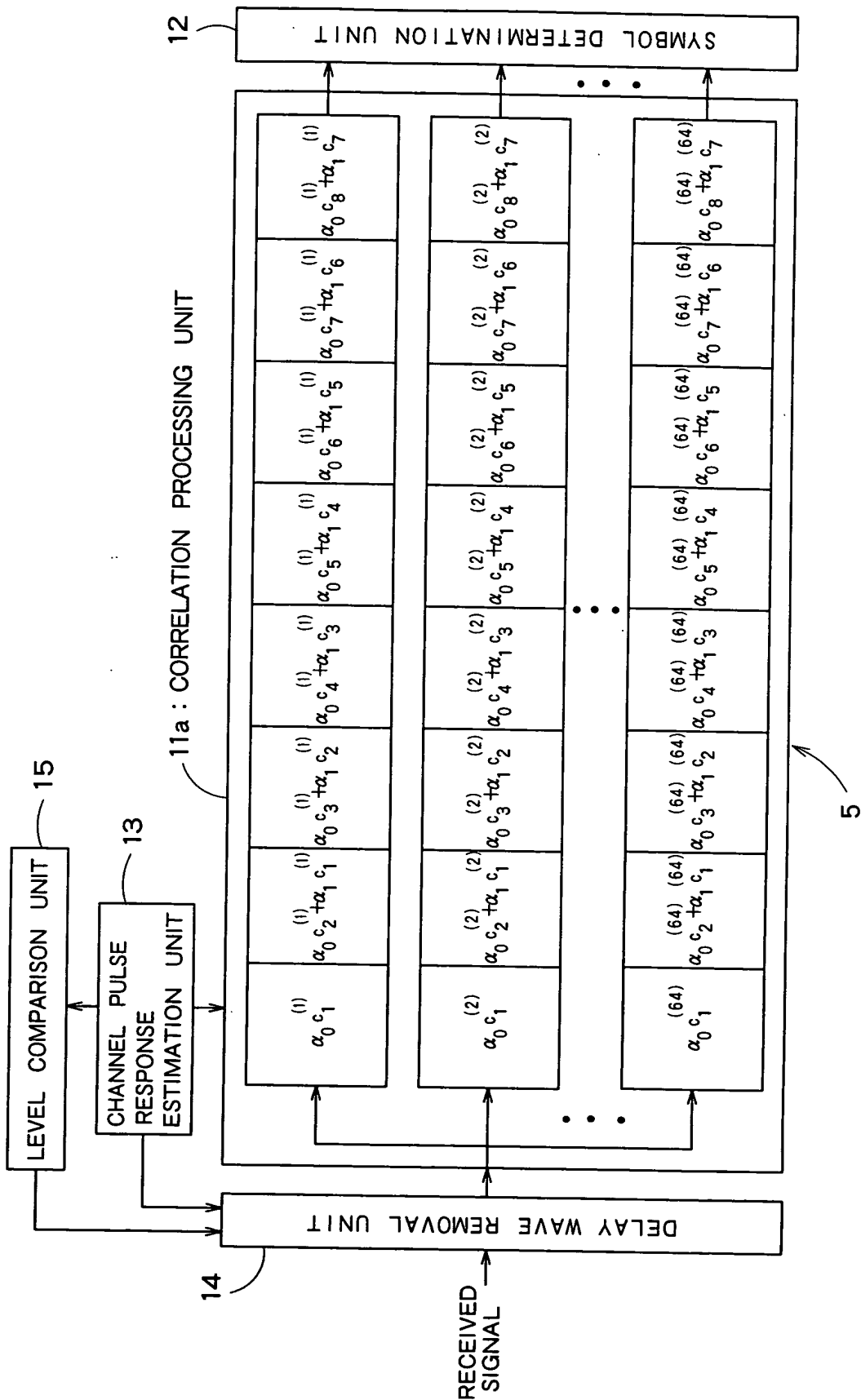


FIG. 9